

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1

(d)

GYRB BACSU MEQQQNSYDENQIQVLEGLEAVRKRPGMYIGSTNS-KGLHHLVWEIVDNSIDEALAGYCT
GYRB ECOLI ----SNSYDSSSIKVLKGLDAVRKRPGMYIGTDDGTGLHHMVFEVDNAIDEALAGHCK
GYRB PSEPU -MSENQTYDSSSIKVLKGLDAVRKRPGMYIGTDDGSGLHHMVFEVDNSIDEALAGHCD

(a)

GYRB BACSU DINIQIEKDNSITVVDNNGRIGIPVGIHEKMGRPAVEVIMTVLHAGGKFDGSGYKVSGLHG
GYRB ECOLI EIIVTIHADNSVSVQDDGRGIPGTGIHPPEGVSAAEVIMTVLHAGGKFDGNSYKVSGLHG
GYRB PSEPU DITVIIHTDESISVRDNNGRIGIPVDVHKEEGVSAAEVIMTVLHAGGKFDGNSYKVSGLHG

GYRB BACSU VGASVVNALSTELDVTVHRDGIHRQTYKRGVPVTDLEIIGETDHTGTTTHFVPDPEIFS
GYRB ECOLI VGVSVVNALSQKLELVIQREGKIHRQIYEHGVPQAPLAVTGETEKTGTMRVFWPSLETFT
GYRB PSEPU VGVSVVNALSEKLVLTVRRSGKIWEQTYVHGVPQAPMAVVGESSETTGTHIHFKPSAETFK

GYRB BACSU ETTEYDYDLLANRVRELAFLTKGVNITIEDKREGQERKNEYHYEGGKISYVEYLNRSKEV
GYRB ECOLI NVTEFEYELAKRLRELSFLNSGVSIRLRDKRDGKE--DHFHYEGGIKAFVEYLNKNKTP
GYRB PSEPU N-IHFSWDILAKRIRELSFLNSGVGILLKDESGKE--EFFKYEGGLRAFVEYLNNTNKT

(1) (b)

GYRB BACSU VHEEPIYIEGEK-DGITVEVALQYNDYSYTSNIYSFTNNINTYEGGTHEAGFKTGLTRVIN
GYRB ECOLI IHPNIFYFSTEK-DGIGVEVALQWNDGFQENIYCFTNNIPQRDGGTHLAGFRAAMTRTLN
GYRB PSEPU VNSQVFHFSVQREDGVGEVALQWNSFNENLLCFTNNIPQRDGGTHLVGFRSSLTRSLN

(h) (e)

GYRB BACSU DYARKKGLIKENDPNLSGDDVREGLTAIISIKHPDPQFEGQTKTKLGNSEARTITDTLFS
GYRB ECOLI AYMDKEGYSKKAKVSATGDDAREGLIAVSVKVPDPKFSSQTKDKLVSSEVKSAVEQQMN
GYRB PSEPU SYIEQEGLAKKNKVATTGDDAREGLTAIISVKVPDPKFSSQTKDKLVSSEVKTAVEQEMN

(k) (i)

GYRB BACSU TAMETFMLENPDAAKKIVDKGLMAARARMAAKKARELTRRKSALISNLPGLADCCSKD
GYRB ECOLI ELLAEYLLNPTDAKIVVGKIIDAARAREAAARRAREMTRRKAGLDLAGLPGKLADCQERD
GYRB PSEPU KYFSDFLLENPNEAKAVVGKMIIDAARAREAAARKAREMTRRKAGLDIAGLPGKLADCQEKD

(g)

GYRB BACSU PSISELYIVEGDSAGGSAKQGRDRHFQAILPLRGKILNVEKARLDKILSNNEVRSMITAL
GYRB ECOLI PALSELYLVEGDSAGGSAKQGRNRKNQAILPLKGKILNVEKARFDKMLSSQEVATLITAL
GYRB PSEPU PALSELYLVEGDSAGGSAKQGRNRRTQAILPLKGKILNVEKARFDKMISSQEVGTLITAL

(c)

GYRB BACSU GTGIGED-FNLEKARYHKVVIMTDADVDGAHIRTLLLTFFFYRMRQIIENGYYIAQPPL
GYRB ECOLI GCGIGRDEYNPDKLRYSIIIMTDADVDGSHIRTLLLTFFFYRQMPFIVERGHVYIAQPPL
GYRB PSEPU GCGIGREEYNIDKLRHNIIMTDADVDGSHIRTLLLTFFFRQLPELVERGYIYIAQPPL

GYRB BACSU YKVQQGK-----
GYRB ECOLI YKVKKGKQEYIKDDEAMDQYQISIALDGATLHTNASAPALAGEALEKLVSSEYNATQKMI
GYRB PSEPU YKVKKGKQEYIKDDEAMEEYMTQSALEDASLHLDSEAPAVSGVQLESLVNEFRSVMKTL

GYRB BACSU -RVEYAY-----NDKE-----
GYRB ECOLI NRMERRYPKAMKELIYQPTLTEADLSDEQTVTRVWVALVSELNDKEQHGSQWKFDVHTN
GYRB PSEPU KRLSRLYPEELTEHFVYLPEVTLEQLGDHAVMQAWLAKLQERLNSSQKSGLAYNASLRED

GYRB BACSU -----
GYRB ECOLI AEQNLFEPIVRVRTHGVDTDYPLDHEFITGGEYRRICTLGKLRGLLEEDAFIERGERRQ
GYRB PSEPU KERNVWLPEVEITSHGLASYITFNDRFFGSNDYRTVVNIGAKLSSLLGEGAYVQRGERRK

(f) (j)

GYRB BACSU ----LEELLKTLPTPKP--GLQRYKGLGEMNATQLWETTMDESSRTLLQVTLEDAMDAD
GYRB ECOLI PVASFEQALDWLVKESRRGLSIQRYKGLGEMNPEQLWETTMDESRRLRVTVKDAIAAD
GYRB PSEPU AIVEFKEGLDWLMNETTKRHTIQRYKGLGEMNPDQLWETTMDEPTVRRMLKVTIEDAIAAD

GYRB BACSU ETFEMLMGDKVEPRRNFIEANARYVKNLDI
GYRB ECOLI QLFTTLMGDAVEPRRAFIEENALKAANIDI
GYRB PSEPU QIFNTLMGDAVEPRREFIESNALSVSNLDF

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